



March 1, 2007

Mr. Charles L. A. Terreni
Chief Clerk & Administrator
Public Service Commission of South Carolina
P. O. Drawer 11649
Columbia, South Carolina 29211

RE: 2006 Testing Program of Meters, Docket No. 89-499-E

Dear Mr. Terreni:

Under Commission Rule 103-370(1) and in accordance with the Commission's Order in Docket No. 89-499-E, Order No. 90-131, dated February 6, 1990, Carolina Power & Light Company, d/b/a Progress Energy Carolinas, Inc. (Progress Energy) is authorized to use a sample meter testing plan for testing single-phase meters and three-phase (self-contained) non-demand meters, and to periodically test other meters in accordance with approved test plans. Progress Energy is transmitting herewith eleven copies of the results of the Company's 2006 Statistical Watt-hour Meter Sample and Periodic Meter Test Results.

All of the meter groups contained in the sample and periodic meter testing plans passed the test criteria.

Sincerely,

/s/ Len S. Anthony

Len S. Anthony
Deputy General Counsel – Regulatory Affairs

Enclosures

2006 SELECTIVE SAMPLE PROGRAM

Progress Energy Carolinas

2006 Watthour Meter Sample
Watthour Meter Groupings

Mfg	Group	Test Method	Number Tested	Sample Conclusion
Landis & Gyr	17	Single	178	Passes Test
ABB	31	Single	182	Passes Test
Landis & Gyr	32	Single	179	Passes Test
GE	33	Single	177	Passes Test
Sangamo	34	Attribute	179	Passes Test
ABB	35	Single	181	Passes Test
GE	37	Single	220	Passes Test

Progress Energy - Carolinas
2006 SELECTIVE SAMPLE
Watthour Meter Group 17 Summary

Group Information

Manufacturer: L&G
Watthour Meter Type(s): DXMX

PE Type Code(s): U09

Meter Classification: TOS1NI
Methodology: Double Sampling Phase 1
Population: 17
Sample Size: 178

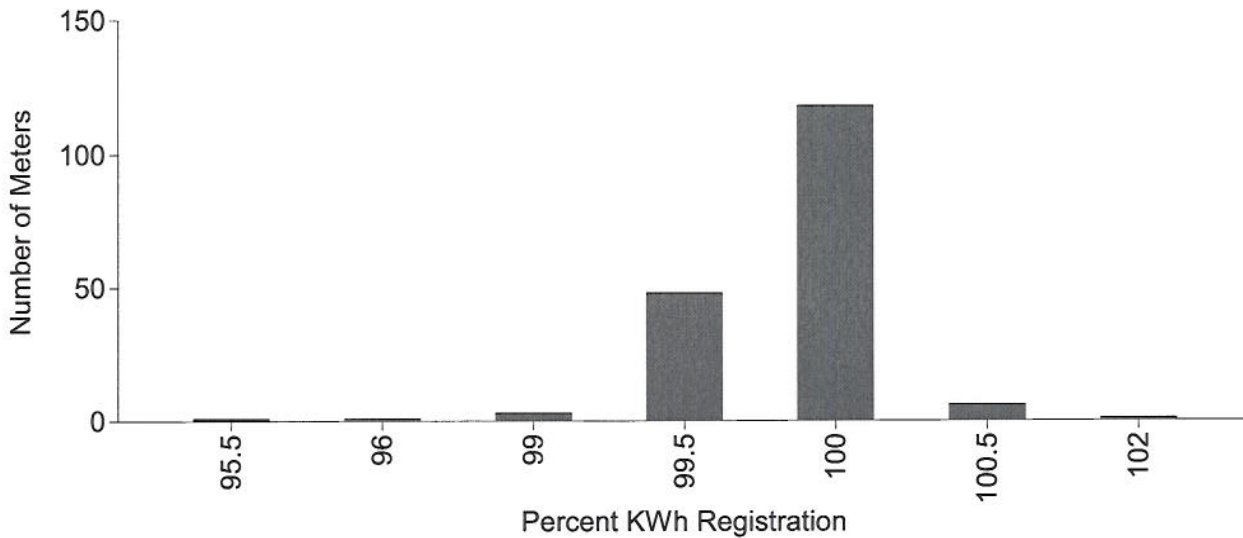
Full Load Test Summary

Mean: 99.825
Standard Deviation: 0.5226
Number of Tests > 102%: 1
Number of Tests 98 - 102%: 175
Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 17 Meter Accuracies



Progress Energy - Carolinas
2006 SELECTIVE SAMPLE
Watthour Meter Group 31 Summary

Group Information

Manufacturer: ABB
Watthour Meter Type(s): AB1,D4S,D4SM,D5S,D5S E,D5S5E,D5SE,D5SM

PE Type Code(s): H13,Y39,T31,T50,TB5,TB6,TG8,T73,T75,T78,T84,H06,H08

Meter Classification: TO/ND/ED
Methodology: Double Sampling Phase 1
Population: 11490
Sample Size: 182

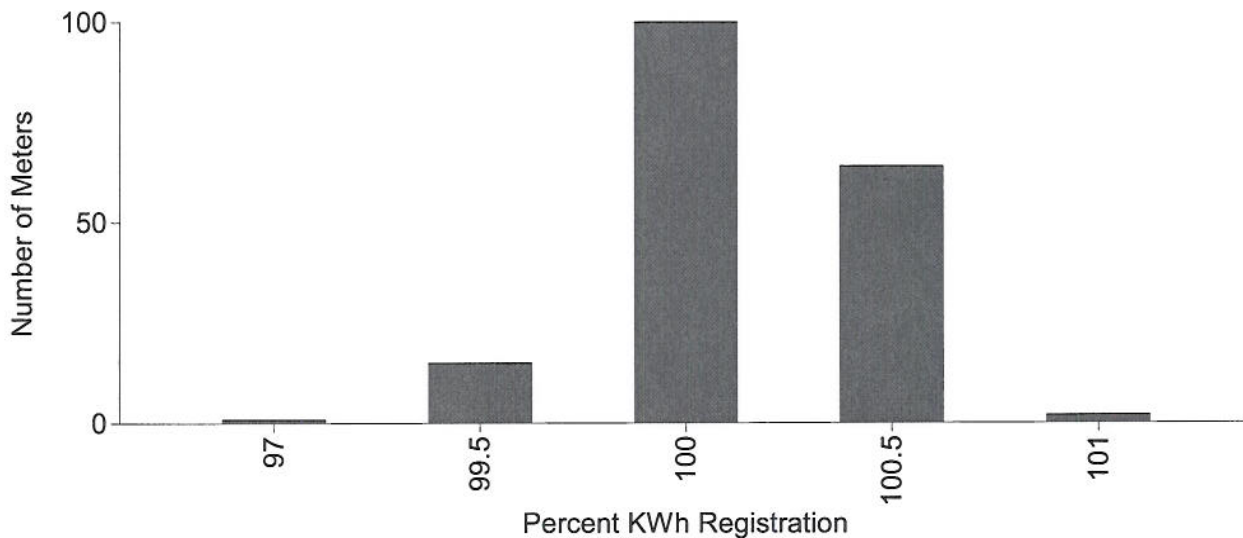
Full Load Test Summary

Mean: 100.118
Standard Deviation: 0.3609
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 181
Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 31 Meter Accuracies



Progress Energy - Carolinas
2006 SELECTIVE SAMPLE
Watthour Meter Group 32 Summary

Group Information

Manufacturer: L&G
Watthour Meter Type(s): MS II,TMS II

PE Type Code(s): K08,K09,K10,K11,K12

Meter Classification: TD/ND/ST
Methodology: Double Sampling Phase 1
Population: 403
Sample Size: 179

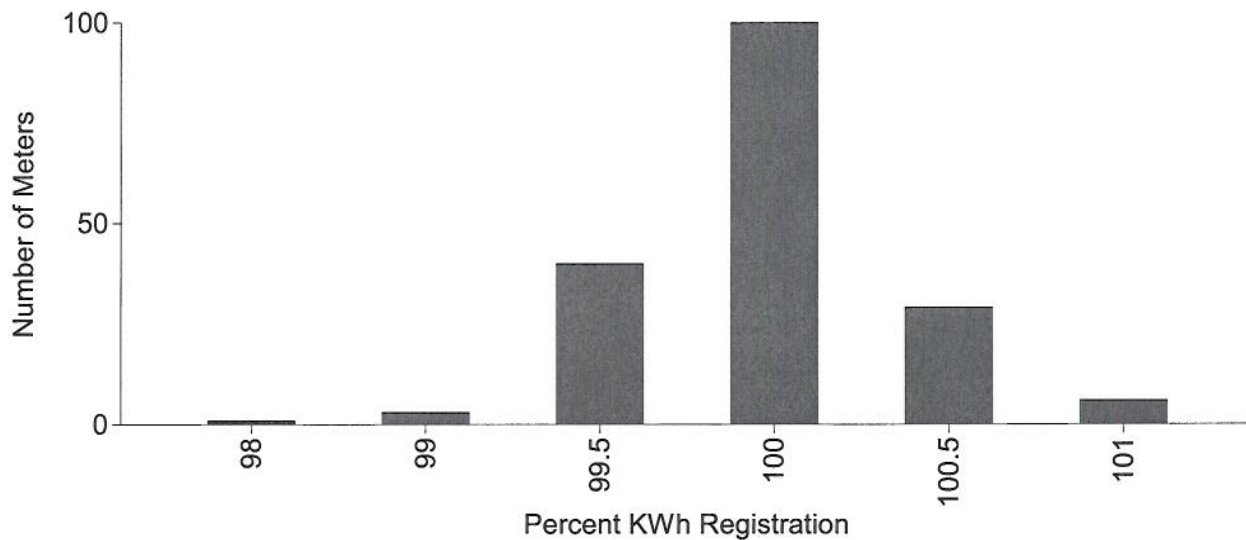
Full Load Test Summary

Mean: 99.978
Standard Deviation: 0.3675
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 178
Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 32 Meter Accuracies



Progress Energy - Carolinas

2006 SELECTIVE SAMPLE

Watthour Meter Group 33 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): EV-1,I 50S,I 70S,I50S,IL70S,IL70S/1,IL70S/2,IM 70S,IM70S,IM70S/2,IRM 70S,IRM70S,IRM-70S,IRM70S/2,IRMW 70S,KV,KV2C

PE Type Code(s): E30,E32,E33,E34,E36,E29,E35,E40,E41,E42,E43,E44,E45,E46,E47,E48,E50,E51,E52,L05,L60,L84,L78,L85,LC6,LE6,LG7,E37,E39,LB7,LC7,LG4,LG9,LL5,LM8,E49

Meter Classification: TO/ND/ED

Methodology: Double Sampling Phase 1

Population: 24307

Sample Size: 177

Full Load Test Summary

Mean: 100.001

Standard Deviation: 0.2632

Number of Tests > 102%: 0

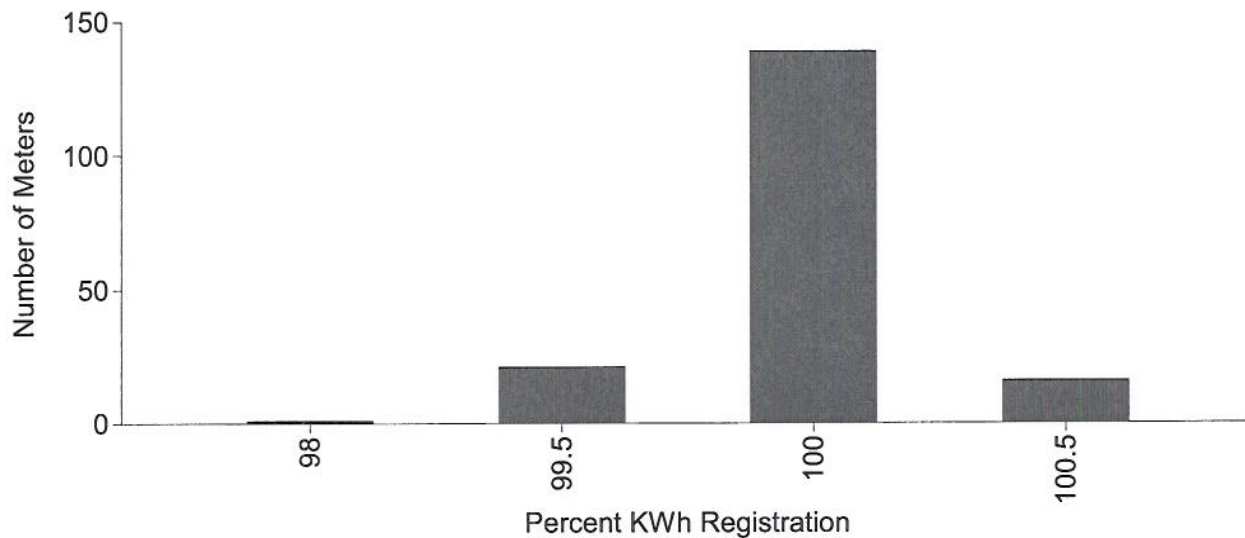
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 33 Meter Accuracies



Progress Energy - Carolinas
2006 SELECTIVE SAMPLE
Wathour Meter Group 34 Summary

Group Information

Manufacturer: SAN

Wathour Meter Type(s): J2TA,J2TS,J3S,J3TA,J3TS,J4S,J4TS,J5S,J5SD,JTS,KWS

PE Type Code(s): M02,M04,M05,M07,M08,M09,M11,M14,M20,M24,M16,M19,M22,M23,M27,M28,M26

Meter Classification: TO/ND/ST

Methodology: Attribute Sampling

Population: 1669

Sample Size: 179

Full Load Test Summary

Mean: 100.054

Standard Deviation: 0.9613

Number of Tests > 102%: 1

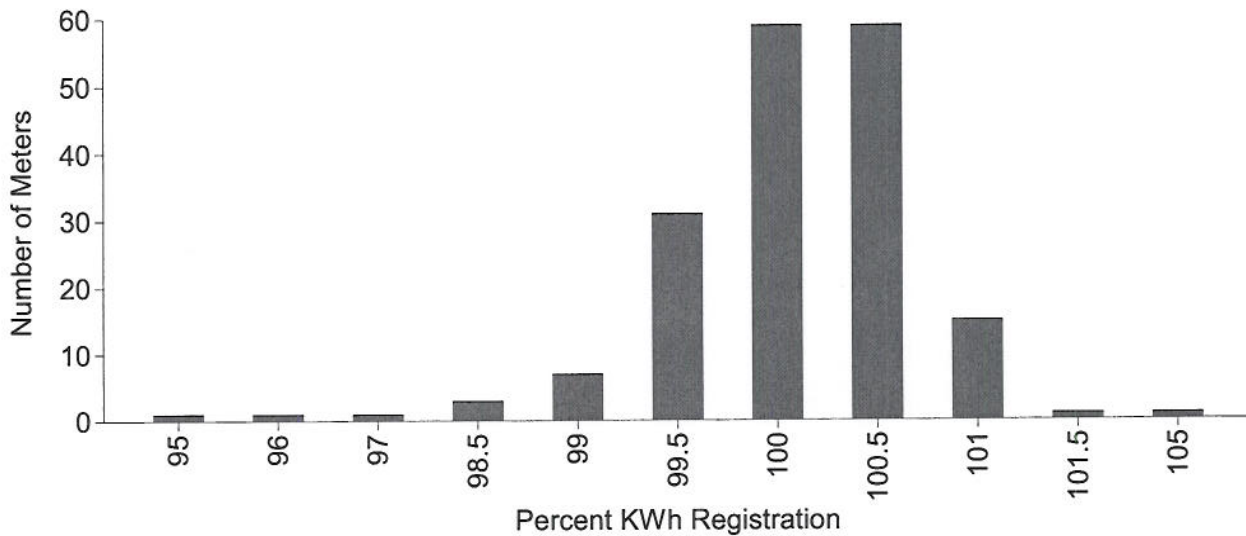
Number of Tests 98 - 102%: 175

Number of Tests < 98%: 3

Group Test Summary

This Group PASSES the sample test since the number of fast wathour meters is less than 7

Histogram of Group 34 Meter Accuracies



Progress Energy - Carolinas
2006 SELECTIVE SAMPLE
Watthour Meter Group 35 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): A1D,A1D+,A1T+,A1TLQ+,AB1,AIT+,AITLQ+

PE Type Code(s): H21,H30,H31,H32,H33,H34,Y43,Y48,H22,H23,H24,H25,H26,H27,H28,H29,H35,
H36,H37,TE4,TE5,TE6,TE7,TE8,TE9,TF1,TF2,TG6,TG7,TG9

Meter Classification: NDS1NI

Methodology: Double Sampling Phase 1

Population: 8393

Sample Size: 181

Full Load Test Summary

Mean: 99.998

Standard Deviation: 0.0738

Number of Tests > 102%: 0

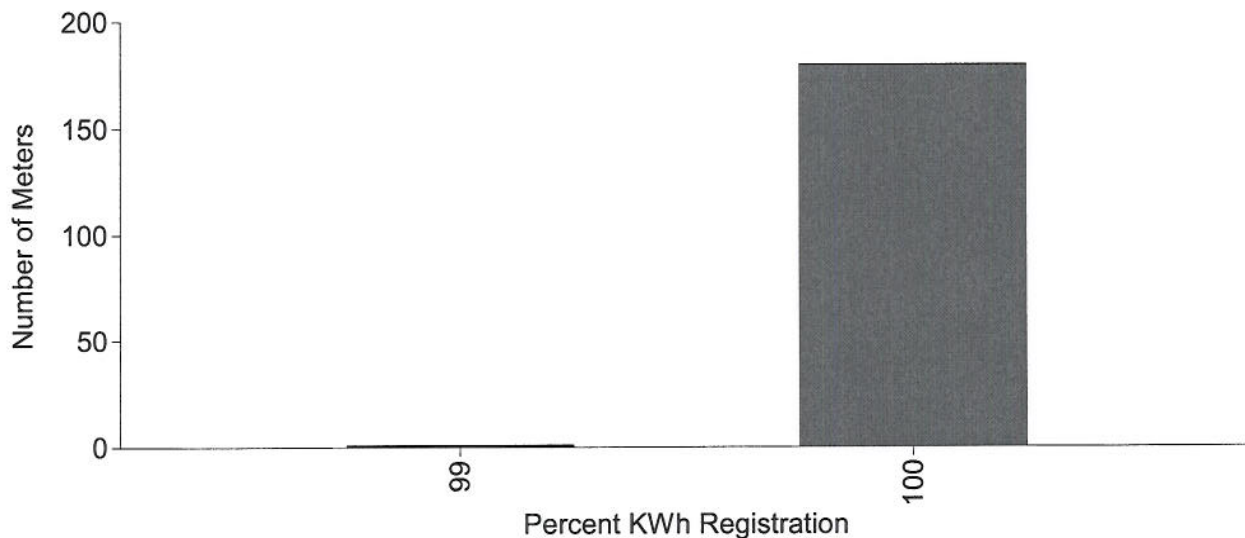
Number of Tests 98 - 102%: 181

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 35 Meter Accuracies



Progress Energy - Carolinas
2006 SELECTIVE SAMPLE
Watthour Meter Group 37 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): EV1,EV-1,KV,KV2C

PE Type Code(s): LM9,LN5,LR8,LT3,LT6

Meter Classification: NDS1NI
Methodology: Double Sampling Phase 1
Population: 3796
Sample Size: 220

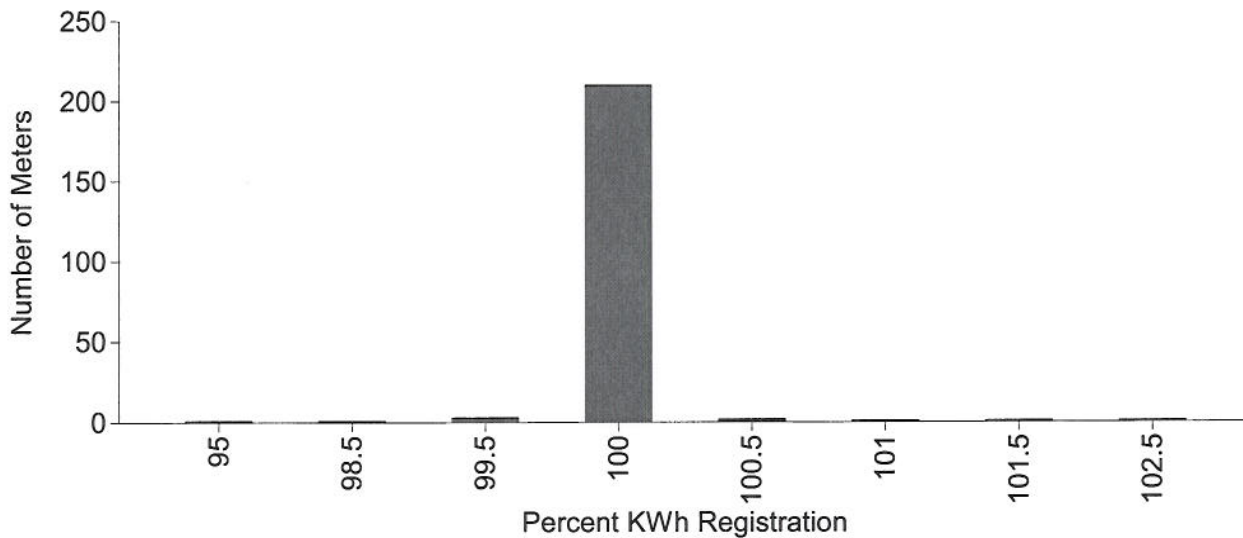
Full Load Test Summary

Mean: 99.828
Standard Deviation: 2.4977
Number of Tests > 102%: 1
Number of Tests 98 - 102%: 218
Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 37 Meter Accuracies



2006 PERIODIC TEST PROGRAM

Progress Energy Carolinas

2006 Watthour Meter Periodic Tests
Watthour Meter Groupings

Mfg	Group	Test Method	Number Tested	Sample Conclusion
GE	813	Field	43	Passes Test
GE	814	Field	3	Passes Test
GE	818	Field	82	Passes Test
GE	819	Field	116	Passes Test
GE	824	Field	4	Passes Test
ABB	827	Field	3	Passes Test
ABB	828	Field	2	Passes Test
Sangamo	833	Field	1	Passes Test
TransData	840	Field	52	Passes Test
GE	845	Field	187	Passes Test
ABB	846	Field	155	Passes Test
GE	847	Field	174	Passes Test
Landis & Gyr	848	Field	194	Passes Test
GE	915	Lab	186	Passes Test
ABB	924	Lab	50	Passes Test
GE	930	Lab	66	Passes Test
GE	932	Lab	247	Passes Test
Landis & Gyr	934	Lab	153	Passes Test

Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 813 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VRM 63A,VRM 64A,VRM 64S,VRM64A,VRM64S

PE Type Code(s): LB9,LC8,LG6,LG8,LH9

Meter Classification: TOT3NI

Methodology: Periodic Test

Population: 1593

Sample Size: 43

Full Load Test Summary

Mean: 100.083

Standard Deviation: 0.2726

Number of Tests > 102%: 0

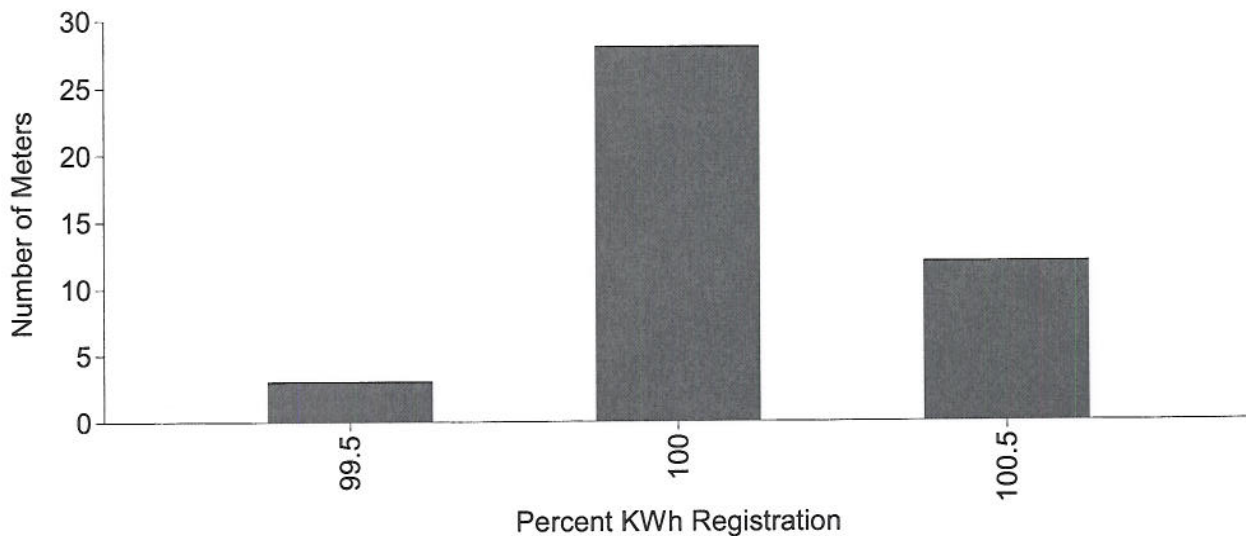
Number of Tests 98 - 102%: 43

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 813 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 814 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VW 63A,VW 63S,VW 64A,VW 64S,VW63S,VW64S

PE Type Code(s): L44,L47,L50,L71,L73,LE3,LH6,LH7

Meter Classification: NDT3WI

Methodology: Periodic Test

Population: 45

Sample Size: 3

Full Load Test Summary

Mean: 99.593

Standard Deviation: 0.8565

Number of Tests > 102%: 0

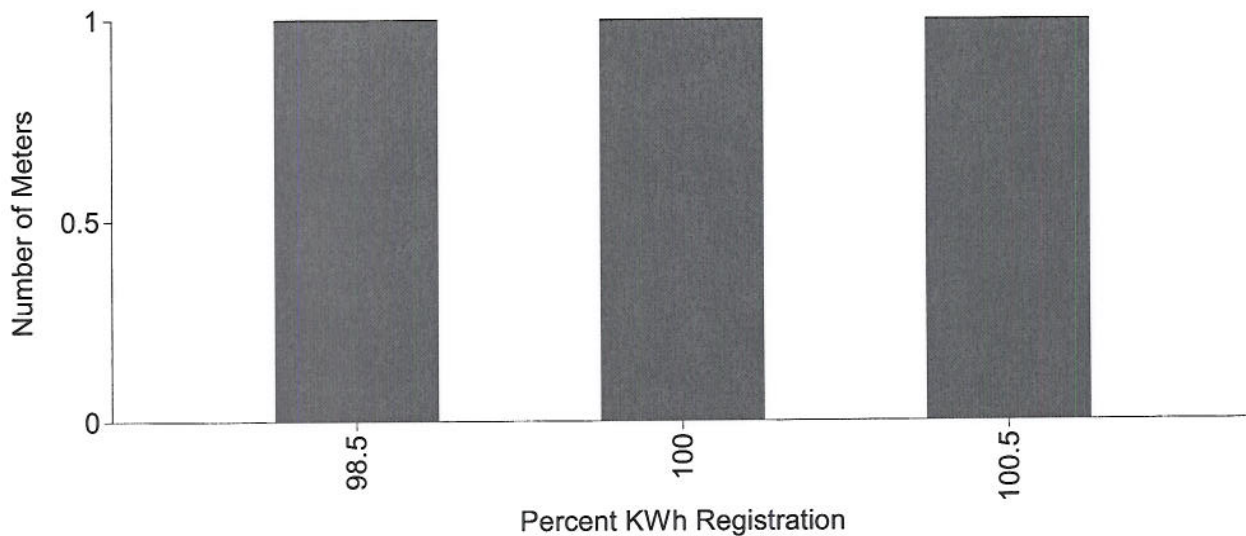
Number of Tests 98 - 102%: 3

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 814 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 818 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): V 63A,V 63S,V 64A,V 64S,V63A,V63S,V64A,V64S

PE Type Code(s): L42,L45,L48,L64,LD2,LD3,LE7,LE8,LE9,LF1,LF7,LF8

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 1924

Sample Size: 82

Full Load Test Summary

Mean: 100.12

Standard Deviation: 0.2924

Number of Tests > 102%: 0

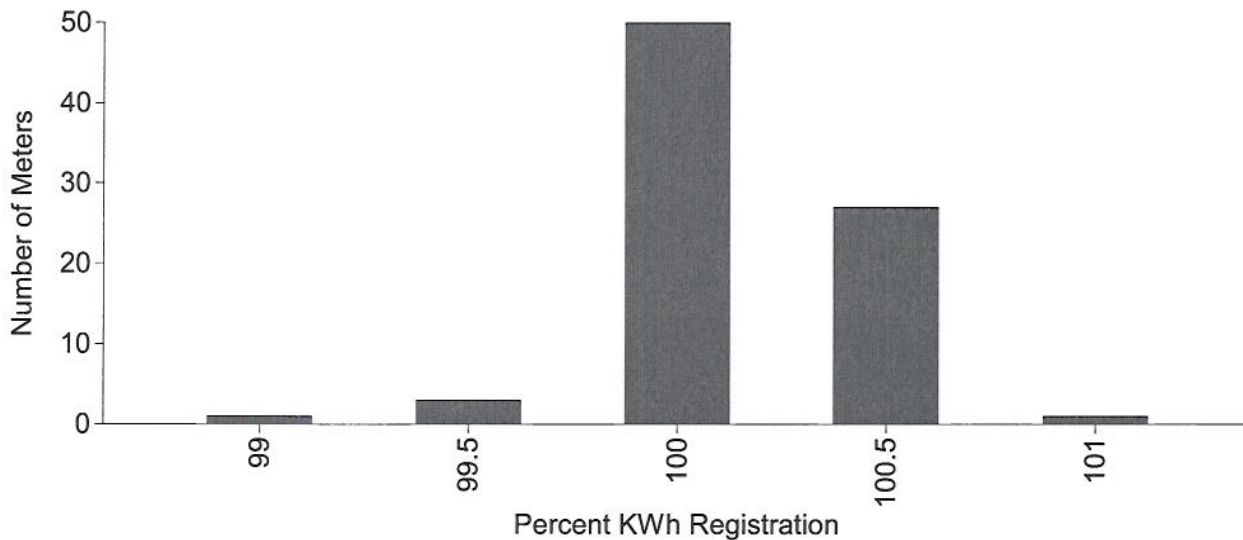
Number of Tests 98 - 102%: 82

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 818 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 819 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VM 63A,VM 63S,VM 64A,VM 64S,VM63A,VM63S,VM64A,VM64S

PE Type Code(s): LB3,LB4,LB5,LC1,LC5,LD4,LF2,LF4,LF5,LF6,LF9

Meter Classification: EDT3NI

Methodology: Periodic Test

Population: 4392

Sample Size: 116

Full Load Test Summary

Mean: 99.213

Standard Deviation: 6.1358

Number of Tests > 102%: 0

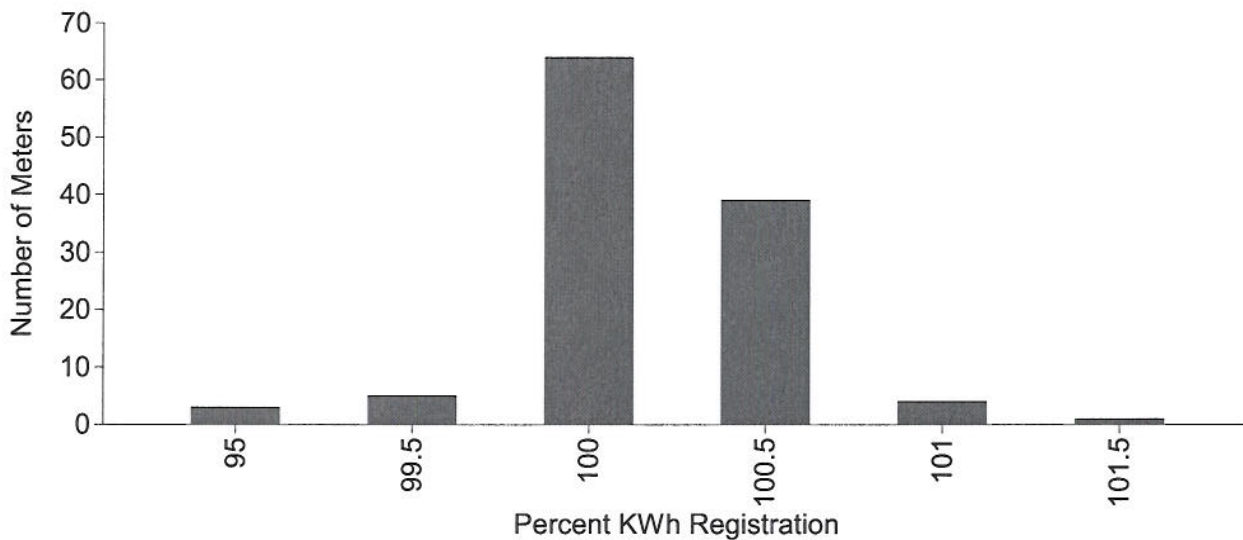
Number of Tests 98 - 102%: 113

Number of Tests < 98%: 3

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 819 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 824 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): D4S2,D4S3,D5S3

PE Type Code(s): T34,T61,T66

Meter Classification: NDT3WI

Methodology: Periodic Test

Population: 14

Sample Size: 4

Full Load Test Summary

Mean: 100.293

Standard Deviation: 0.6452

Number of Tests > 102%: 0

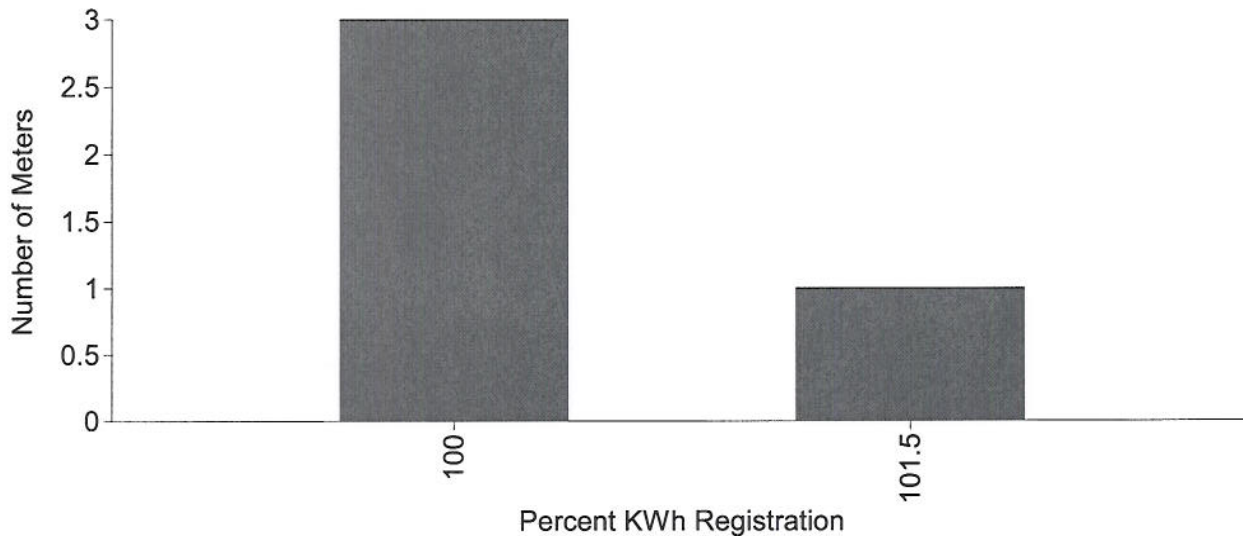
Number of Tests 98 - 102%: 4

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 824 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 827 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): ABA-2,D5A 2,D5S 3

PE Type Code(s): T76,T77,T79,TB7,TC3

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 158

Sample Size: 3

Full Load Test Summary

Mean: 99.983

Standard Deviation: 0.1682

Number of Tests > 102%: 0

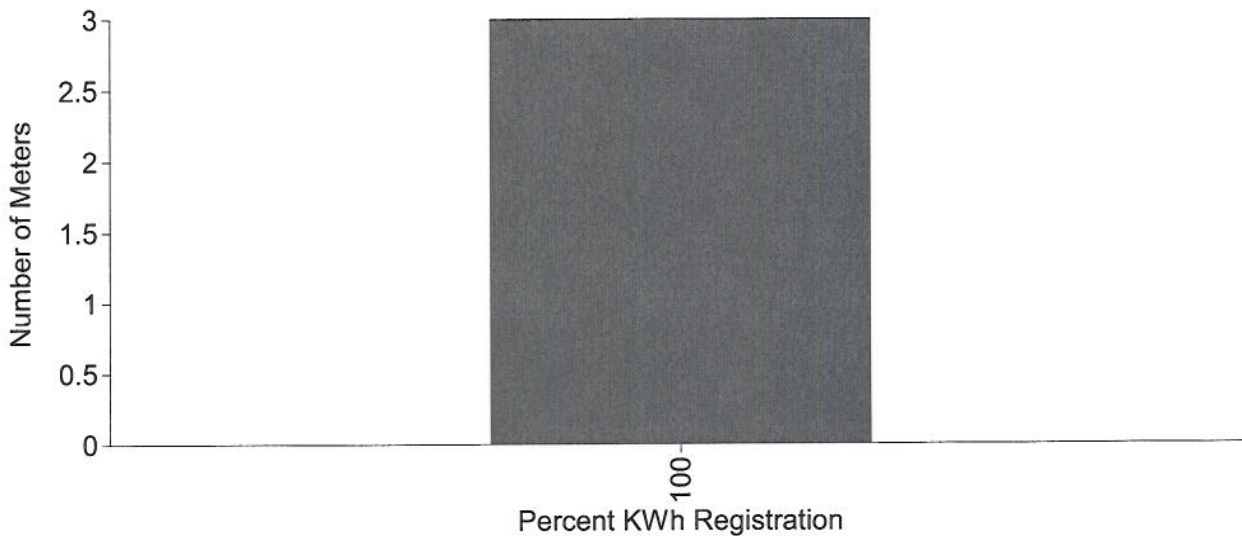
Number of Tests 98 - 102%: 3

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 827 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 828 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): D5A 2E,D5A 3E,D5S 3E,D5S2E

PE Type Code(s): T71,T72,T80,T96

Meter Classification: EDT3NI

Methodology: Periodic Test

Population: 362

Sample Size: 2

Full Load Test Summary

Mean: 100.245

Standard Deviation: 0.015

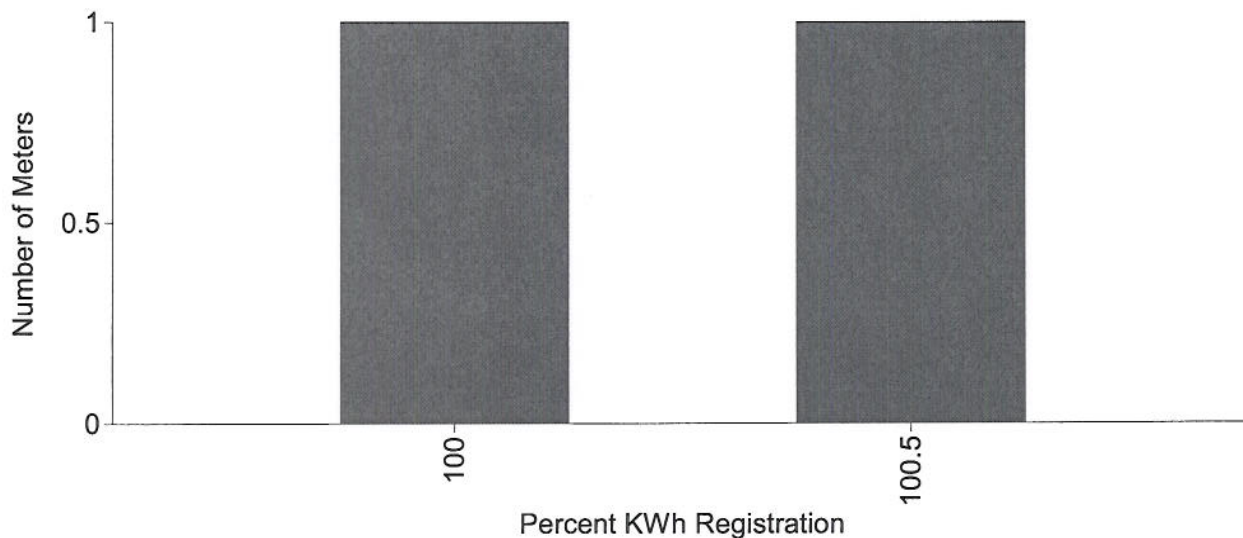
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 2

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 828 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 833 Summary

Group Information

Manufacturer: SAN

Watthour Meter Type(s): SL4A

PE Type Code(s): M29

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 66

Sample Size: 1

Full Load Test Summary

Mean: 99.83

Standard Deviation: 0

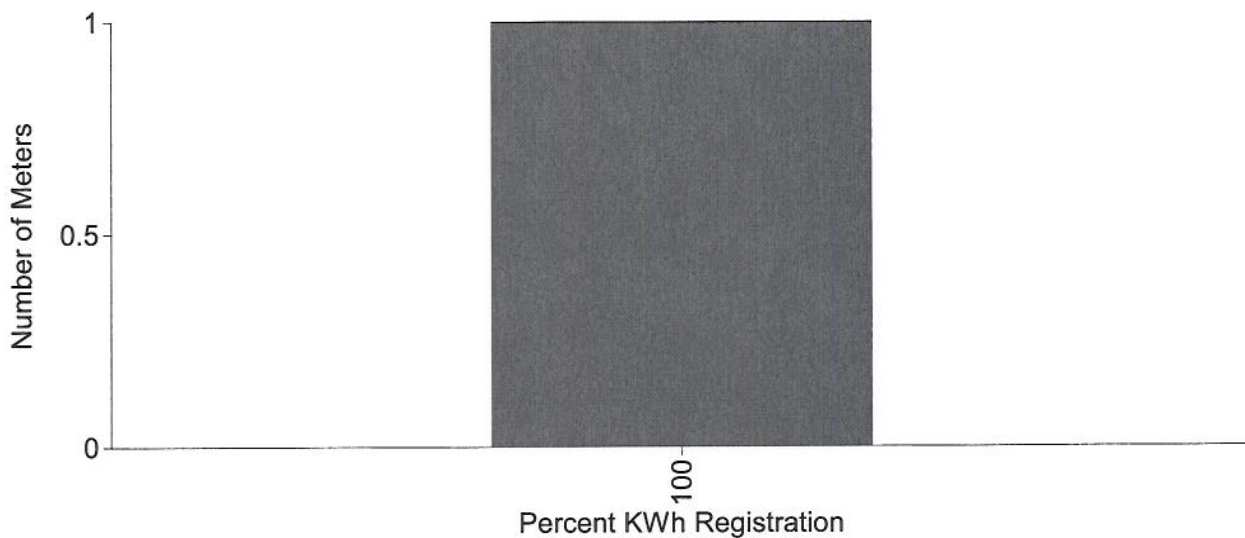
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 1

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 833 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 840 Summary

Group Information

Manufacturer: TD

Watthour Meter Type(s): MARK V

PE Type Code(s): Z17,Z18,Z20,Z32,Z38,Z39,Z41,Z44,Z45,Z46,Z47,Z48,Z49,Z50,Z51,Z52,Z54,
Z57,Z58,Z59,Z61,Z66,Z74,Z75,Z76

Meter Classification: MARKV

Methodology: Periodic Test

Population: 1207

Sample Size: 52

Full Load Test Summary

Mean: 99.227

Standard Deviation: 4.5484

Number of Tests > 102%: 0

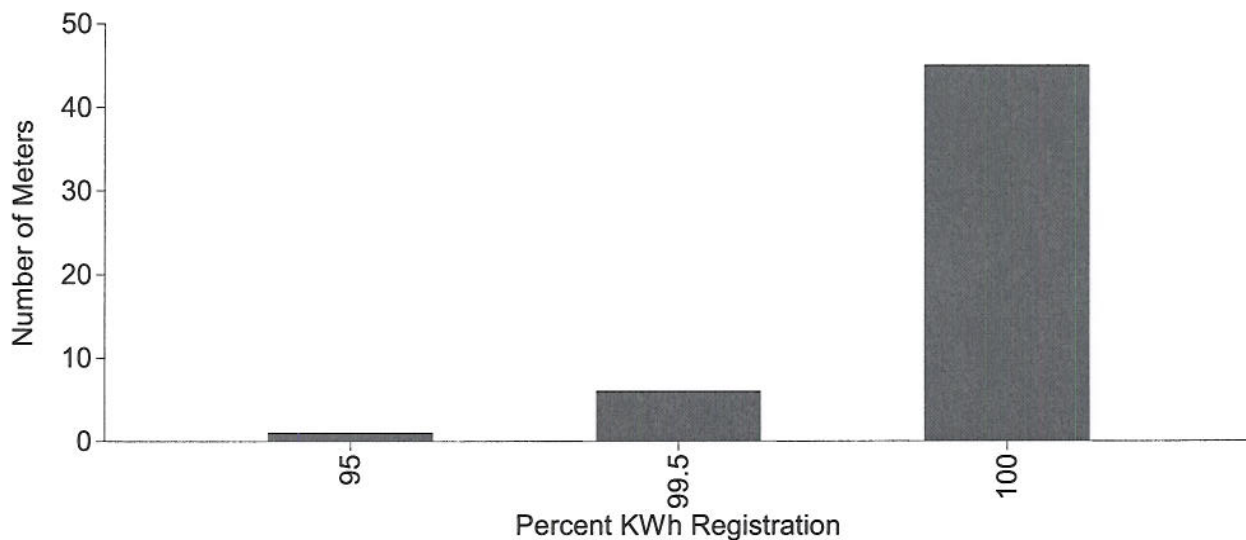
Number of Tests 98 - 102%: 51

Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 840 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 845 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): EV-3,EV4,EV-4

PE Type Code(s): LJ5,LJ6,LJ7,LJ8,LJ9,LK1,LK5,LK6,LK9,LL1,LL2,LL6,LL7,LL8,LL9,LM1,LM2,LM3,LM4,LM5,LM6,LM7,LN1,LN2,LN4

Meter Classification: SDT3NI

Methodology: Periodic Test

Population: 6058

Sample Size: 187

Full Load Test Summary

Mean: 99.176

Standard Deviation: 8.7277

Number of Tests > 102%: 1

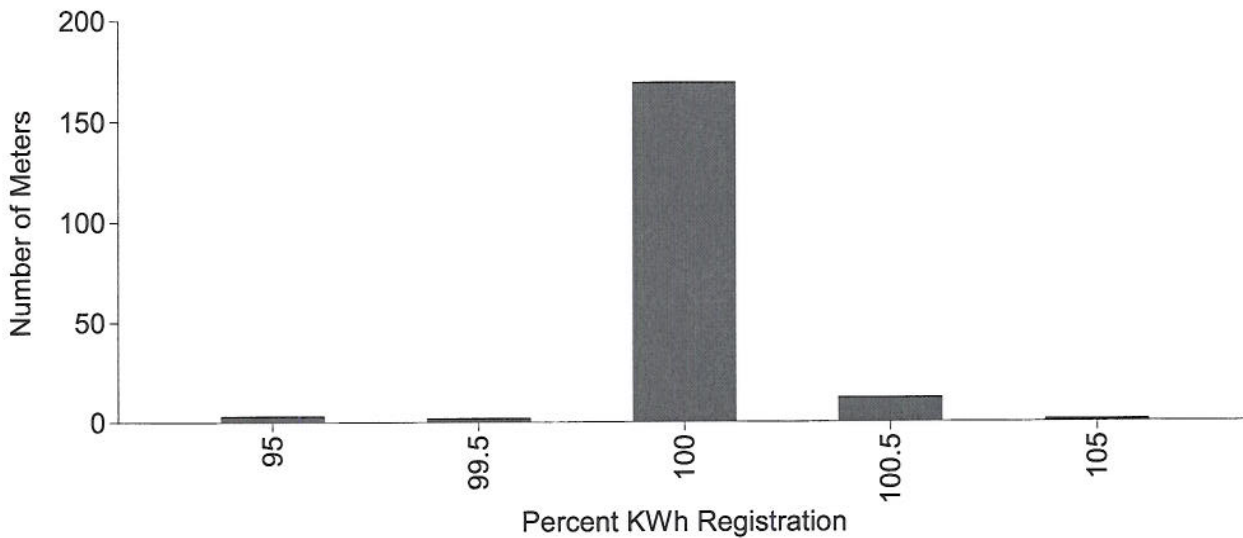
Number of Tests 98 - 102%: 183

Number of Tests < 98%: 3

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 845 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 846 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): A1D,A1D+,A1RLQ+,AID+,AIRLQ+

PE Type Code(s): T98,TA3,TA4,TA5,TA6,TA8,TA9,TB1,TC6,TC7,TC8,TC9,TD5,TD6,TD7,TD8,TD9,TF3,TF4,TF5,TF6,TF7,TH2

Meter Classification: SDT3NI

Methodology: Periodic Test

Population: 6024

Sample Size: 155

Full Load Test Summary

Mean: 99.363

Standard Deviation: 7.9307

Number of Tests > 102%: 0

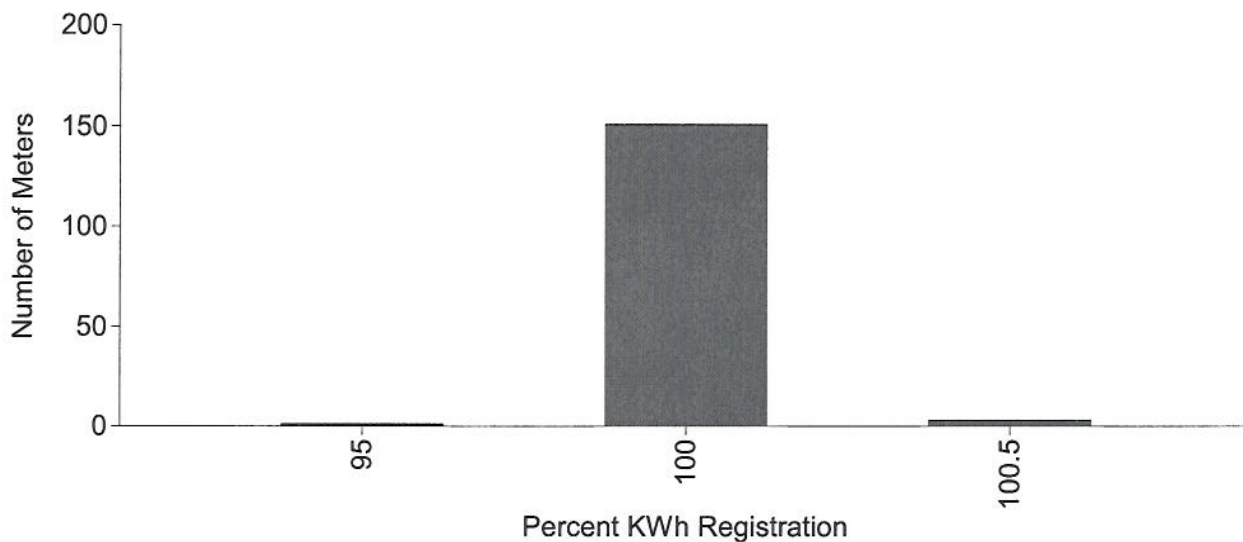
Number of Tests 98 - 102%: 154

Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 846 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 847 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): KV,KV2C

PE Type Code(s): LN6,LN7,LN8,LN9,LP2,LP3,LP4,LP5,LP6,LP7,LP8,LP9,LR1,LR2,LR3,LR9,LT1,LT7,LT8

Meter Classification: SDT3NI

Methodology: Periodic Test

Population: 7528

Sample Size: 174

Full Load Test Summary

Mean: 99.877

Standard Deviation: 0.7026

Number of Tests > 102%: 0

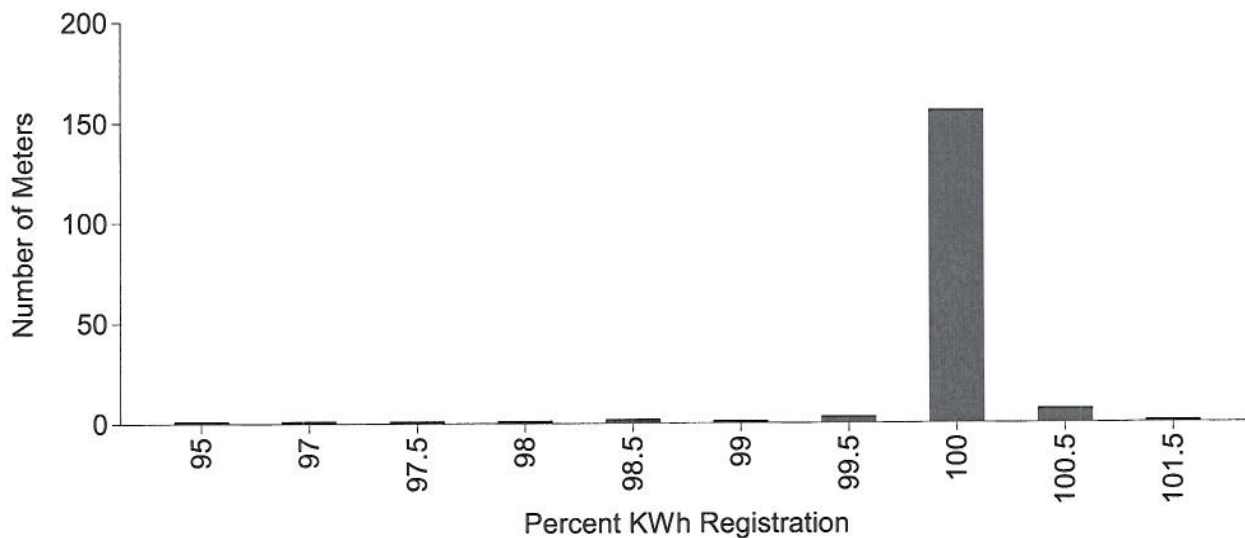
Number of Tests 98 - 102%: 170

Number of Tests < 98%: 4

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 847 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 848 Summary

Group Information

Manufacturer: L&G

Watthour Meter Type(s): AXS4

PE Type Code(s): K15,K16

Meter Classification: STT3NI

Methodology: Periodic Test

Population: 4611

Sample Size: 194

Full Load Test Summary

Mean: 99.737

Standard Deviation: 2.633

Number of Tests > 102%: 0

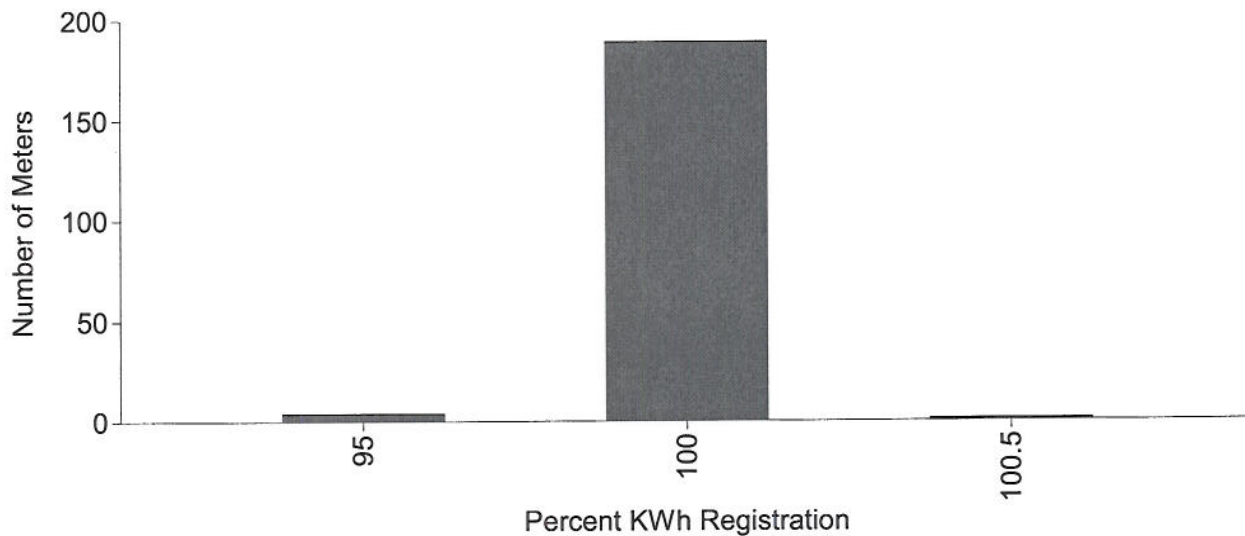
Number of Tests 98 - 102%: 190

Number of Tests < 98%: 4

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 848 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC (PINK)
Watthour Meter Group 915 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): VM 65S, VM 66S

PE Type Code(s): R68, R69, R70

Meter Classification: EDS3NI
Methodology: Periodic Test
Population: 2876
Sample Size: 186

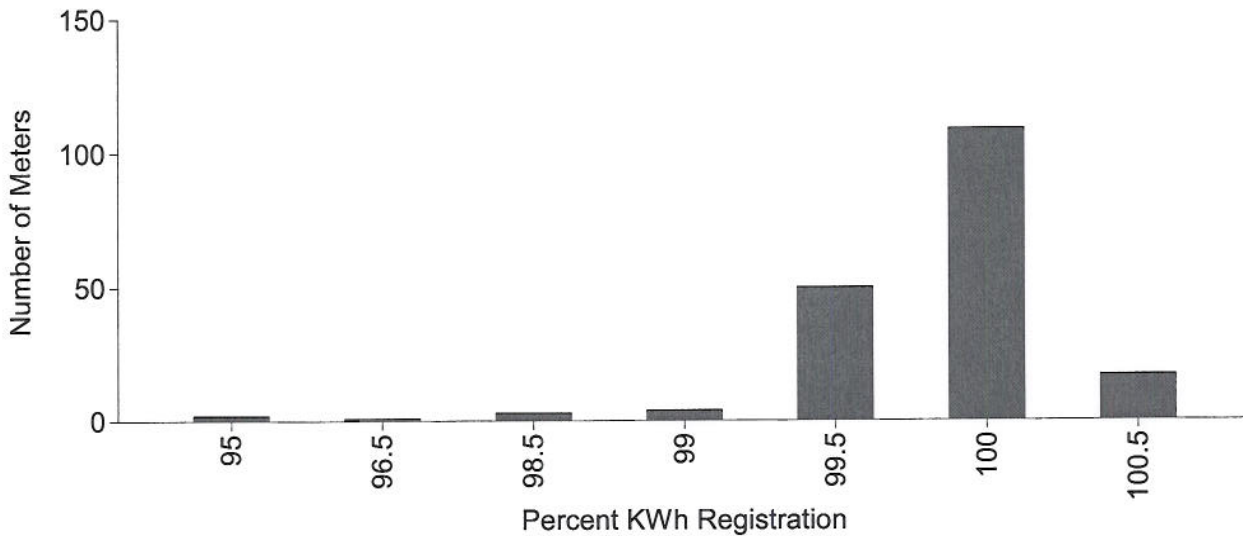
Full Load Test Summary

Mean: 99.296
Standard Deviation: 5.1756
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 183
Number of Tests < 98%: 3

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 915 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC (PINK)
Watthour Meter Group 924 Summary

Group Information

Manufacturer: ABB
Watthour Meter Type(s): D5S 7E,D5S 8E

PE Type Code(s): Y35,Y36

Meter Classification: EDS3NI
Methodology: Periodic Test
Population: 787
Sample Size: 50

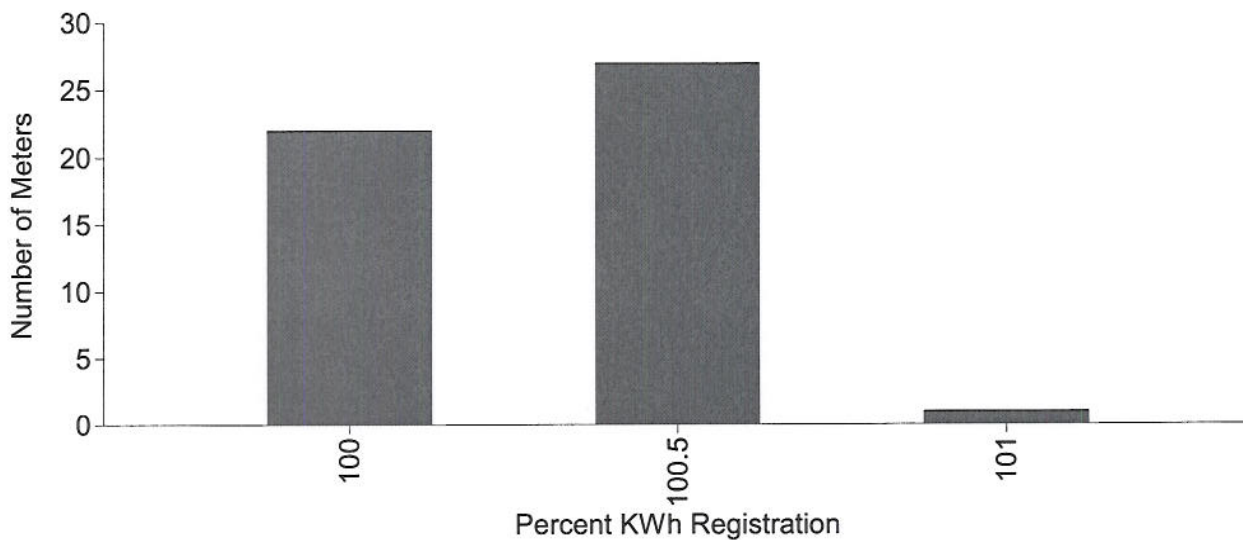
Full Load Test Summary

Mean: 100.346
Standard Deviation: 0.2294
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 50
Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 924 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC (PINK)
Watthour Meter Group 930 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): EV-2,EV-5,EV-6

PE Type Code(s): R93,R89,R91,R92,R90,R95,R88,R87

Meter Classification: SDS3NI
Methodology: Periodic Test
Population: 1260
Sample Size: 66

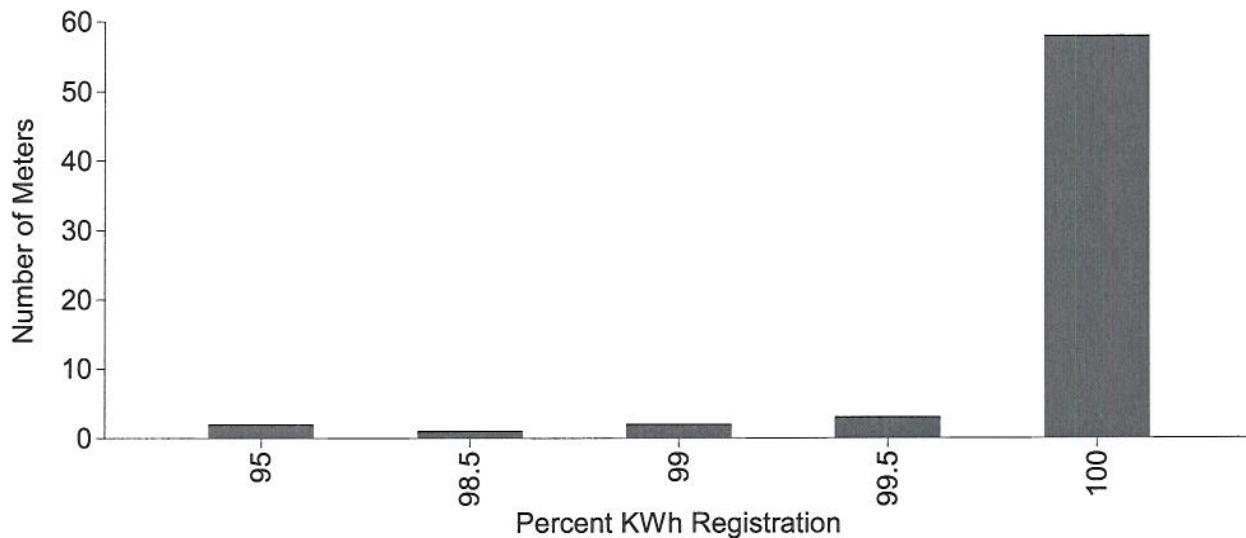
Full Load Test Summary

Mean: 98.932
Standard Deviation: 7.0843
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 64
Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 930 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC (PINK)
Watthour Meter Group 932 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): KV,KV2C

PE Type Code(s): RA5,RA9,RA8,LT5,LV3,R98,RA3,RB4,R99,LT4,RA7,RB3,RB2,RA2,RB1,RA6

Meter Classification: REMOTE
Methodology: Periodic Test
Population: 6298
Sample Size: 247

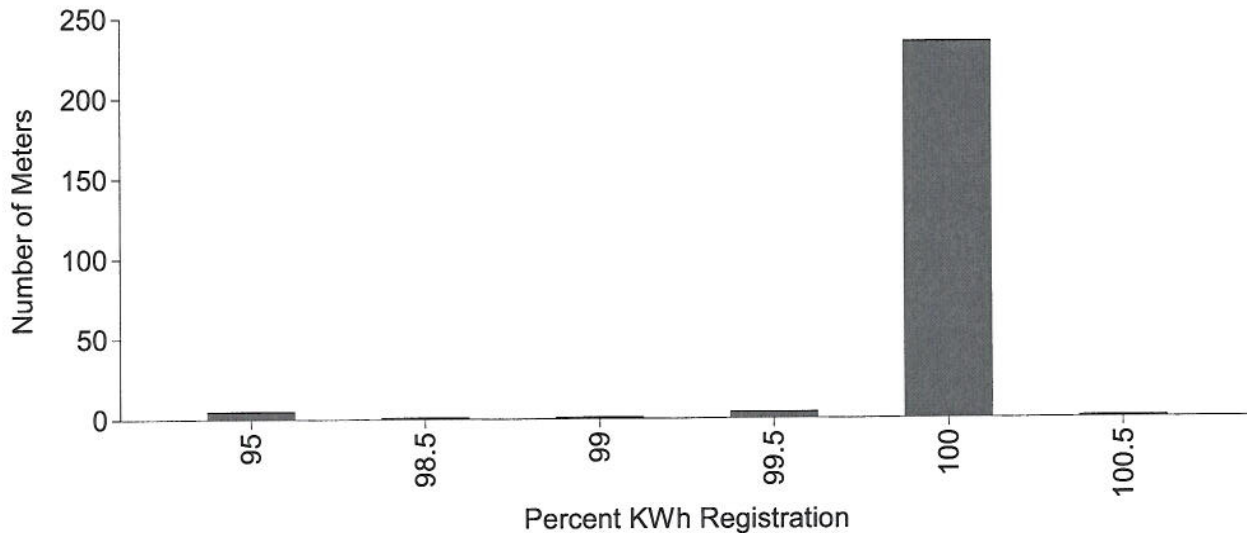
Full Load Test Summary

Mean: 99.549
Standard Deviation: 3.2223
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 242
Number of Tests < 98%: 5

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 932 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC (PINK)
Watthour Meter Group 934 Summary

Group Information

Manufacturer: L&G
Watthour Meter Type(s): AXS4

PE Type Code(s): C10,C11

Meter Classification: SDS3NI
Methodology: Periodic Test
Population: 2327
Sample Size: 153

Full Load Test Summary

Mean: 99.809
Standard Deviation: 2.4635
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 152
Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 934 Meter Accuracies

